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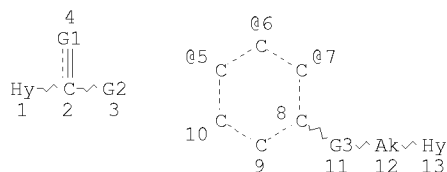
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=> d que sta l21
 L17 STR



VAR G1=O/S/N
 VAR G2=5/6/7
 VAR G3=O/S/N
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E4 C E2 N AT 1
 ECOUNT IS E5 C E1 N AT 13

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
 L19 107285 SEA FILE=REGISTRY ABB=ON PLU=ON C6/ES AND (NC2NC2 AND
 NC5)/ES
 L21 345 SEA FILE=REGISTRY SUB=L19 SSS FUL L17

100.0% PROCESSED 101317 ITERATIONS 345 ANSWERS
 SEARCH TIME: 00.00.01

=> b hcap
 FILE 'HCAPLUS' ENTERED AT 15:21:15 ON 13 FEB 2008
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FILE COVERS 1907 - 13 Feb 2008 VOL 148 ISS 7
FILE LAST UPDATED: 12 Feb 2008 (20080212/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitrn fhitrn l24 tot

L24 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on SIN

AN 2004:370915 HCAPLUS

DN 140:1391296

TI Preparation of aryloxyalkylamine derivatives as H3 receptor ligands

IN Best, Desmond John; Bruton, Gordon; Heightman, Thomas Daniel; Orlie, Barry

SI Sidney

DA Glaxo Group Limited, UK

SO PCT Int. Appl., 63 pp.

COZEN: PFX32

DT Patent

LA English

FAN CNT 1

PI	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2004037600	A1	20040506	2003WO-EP11649	20031020	
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MN, MW, MX, MY, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MG, SD, SI, SE, TG, UG, ZM, AM, AE, BY, KG, KZ, MD, RU, TJ, TM, AT, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU2003214053	A1	20040513	2003AU-0274053	20031020	
EP-----1554260	A1	20050720	2003EP-0758032	20031020	
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP2006512404	T	20060413	2005JP-0501523	20031020	
US2006052597	A1	20060309	2005US-0532371	20050421	
PRAI	2002GB-0024558	A	20021022		
	2002GB-0024677	A	20021023		
	2002GB-0024678	A	20021023		
	2002GB-0024679	A	20021023		
	2002GB-0024783	A	20021024		
	2003GB-0003467	A	20030214		
	2003WO-EP11649	M	20031020		
OS	MANPAT 140:391296				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title novel benzylxy compds. [I: R1 = II (wherein R4a = alkyl, oxo, (hetero)aryl, heterocyclyl: R5a = halo, OH, CN, etc.; m = 1-2; p = 0-3; when p = 2, said R4a groups may instead form a bridging group consisting of 1-2 methylene groups), substituted 502N2, II (R4b = alkyl, OH, aryl, heterocyclyl: R = 0-2), etc.; R2 = halo, alkyl, alkoxy, CN, NH2, CF3; n = 0-2; R3 = (CH2)qNR1R1R12, IV (q = 2-4; R11, R12 = alkyl; NR1R1R12 = heterocyclyl; R13 = alkyl, cycloalkyl, alkylcycloalkyl; R14 = halo, alkyl, haloalkyl, OH, dialkylamino, alkoxy; f, k = 0-2; g = 0-2; h = 0-3 (q and h cannot both be 0)), useful in the treatment of neurol. and psychiatric disorders, were prepared. Thus, reacting 4-[3-(piperidin-1-yl)propoxy]benzoic acid hydrochloride with 4-phenylpiperazine afforded V which exhibited pKb of >8.5 in the histamine H3 functional antagonist assay. The pharmaceutical composition comprising the compound I is claimed.

II 685871-07-2P 685871-09-4P 685871-56-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of aryloxyalkylamine derivs. as H3 receptor ligands)

II 685871-06-1P 685871-08-3P 685871-11-8P

685871-12-9P 685871-13-0P 685871-14-1P

685871-15-2P 685871-16-3P 685871-17-4P

685871-18-5P 685871-19-6P 685871-20-9P

685871-21-0P 685871-22-1P 685871-23-2P

685871-24-3P 685871-25-4P 685871-26-5P

685871-27-6P 685871-28-7P 685871-29-8P

L24 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

685871-30-1P 685871-31-2P 685871-32-3P

685871-34-5P 685871-37-8P 685871-38-9P

685871-39-0P 685871-40-3P 685871-41-4P

685871-42-5P 685871-43-6P 685871-44-7P

685871-45-8P 685871-46-9P 685871-47-0P

685871-48-1P 685871-49-2P 685871-50-5P

685871-51-6P 685871-52-7P 685871-53-8P

685871-54-9P 685871-55-0P 685871-57-2P

685871-58-3P 685871-59-4P 685871-60-7P

685871-61-8P 685871-62-9P 685871-63-0P

685871-64-1P 685871-65-2P 685871-66-3P

685871-67-4P 685871-68-5P 685871-69-6P

685871-70-9P 685871-71-0P 685871-72-1P

685871-73-2P 685871-74-3P 685871-75-4P

685871-76-5P 685871-77-6P 685871-78-7P

685871-79-8P 685871-87-8P 685871-88-9P

685871-89-0P 685871-90-3P 685871-92-5P

685871-93-6P 685871-95-8P 685871-97-0P

685871-99-2P 685872-01-9P 685872-03-1P

685872-05-3P 685872-07-5P 685872-08-6P

685872-09-7P 685872-10-0P 685872-12-2P

685872-14-4P 685872-16-6P 685872-17-7P

685872-19-9P 685872-26-8P 685872-28-0P

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685872-35-9P 685872-36-0P 685872-37-1P

685872-38-2P 685872-39-3P 685872-40-6P

685872-41-7P 685872-42-8P 685872-43-9P

685872-44-0P 685872-45-1P 685872-46-2P

685872-47-3P 685872-48-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aryloxyalkylamine derivs. as H3 receptor ligands)

II 685873-05-6P, 1-(tert-butoxycarbonyl)-4-[4-(3-(piperidin-1-yl)propoxy)-2-trifluoromethylbenzoyl]piperazine 685873-06-7P,

1-[4-(3-(piperidin-1-yl)propoxy)-2-trifluoromethylbenzoyl]piperazine dihydrochloride 685873-08-9P 685873-09-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aryloxyalkylamine derivs. as H3 receptor ligands)

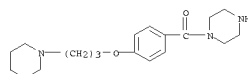
II 685871-07-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of aryloxyalkylamine derivs. as H3 receptor ligands)

RN 685871-07-2 HCAPLUS

CN Piperazine, 1-[4-[3-(1-piperidinyl)propoxy]benzoyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCL

=> d bib abs hitstr 132 tot

L32 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN

AN 2007:3375 HCAPLUS

DN 146:163019

TI Preparation of piperidinecarboxylates as G protein-coupled receptor

IN (GPR119) agonists

Bradley, Stuart Edward; Fyfe, Matthew Colin Thor; Bertram, Lisa Sarah; Gattrell, William; Jeevaratnam, Revathy Perpetua; Kelly, John; Procter, Martin James; Rasanison, Christelle Marie; Rushworth, Philip John; Sandbrook-Smith, Colin Peter; Stonehouse, David French; Swain, Simon Andrew; Williams, Geoffrey Martyn

PA Prosidion Limited, UK

SO PCT Int. Appl., B5pp.

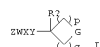
CODEN: PIXXD5

DT Patent

LA English

FAR.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2007003962	A2	20070111	2006WO-GB50178	20060629
WO2007003962	A3	20070308		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GD, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI 2005GB-0013277	A2	20050630		
2006GB-0005946	A	20060327		
OS MARPAT 146:163019				
GI				



AB Title compds. [I; Z = (substituted) Ph, 5-6 membered heteroaryl; W, Y = bond, (substituted) alkylene, alkenylene; X = CH₂, O, S, CH(OH), halomethyl, CF₂, CO, CO₂, COS, NRS, SO, SO₂, etc.; G = CHR₃, NCO₂R₄, NCONR₄R₅, (substituted) N-heterocyclyl, N-heteroaryl, etc.; R₆ = H, OH; R₃ = alkyl; R₄ = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl, etc.; R₅ = H, alkyl; p = 0-3; q = 1-5; p+q = 2-5], were prepared. Thus, (4-methoxycarbonylbenzyl)triphenylphosphonium bromide in dimethoxyethane was treated portionwise with NaH; tert-Bu 4-(3-oxopropyl)piperidine-1-carboxylate in dimethoxyethane was added followed by stirring for 20 h at room temperature to give tert-Bu 4-((E)-4-(4-methoxycarbonylphenyl)but-3-enyl)piperidine-1-carboxylate. I in a cell line expressing recombinant human GPR119 generally increased intracellular cAMP levels with EC₅₀'s of <10 μM.

II 919359-30-1P 919359-38-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

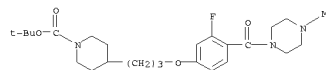
(Preparation of piperidinecarboxylates as G protein-coupled receptor (GPR119) agonists)

RN 919359-30-1 HCAPLUS

CN 1-piperidinecarboxylic acid, 4-([3-[3-fluoro-4-((4-methyl-1-piperazinyl)carbonyl)phenoxyl]propyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

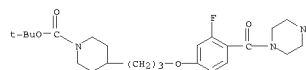
L32 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN

(Continued)



RN 919359-38-9 HCAPLUS

CN 1-piperidinecarboxylic acid, 4-([3-[3-fluoro-4-((4-methyl-1-piperazinyl)carbonyl)phenoxyl]propyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



L32 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN

AN 2006:844745 HCAPLUS

DN 145:271810

TI Preparation of pyridyl non-aromatic nitrogenated heterocyclic-1-carboxylate ester derivatives as FAAH inhibitors

IN Ishii, Takahiro; Sugane, Takashi; Maeda, Jun; Narasaki, Fumie; Kakefuda, Akio; Sato, Kentaro; Takahashi, Tetsuhisa; Kanayama, Takatoshi; Saitoh, Chikashi; Suzuki, Jotaro; Kanai, Chisato

PA Astellas Pharma Inc., Japan

SO PCT Int. Appl., 18pp.

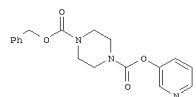
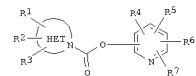
CODEN: PIXXD5

DT Patent

LA Japanese

FAR.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2006088075	A1	20060824	WO 2006-JP302698	20060216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DE, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, ME, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GD, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU2006215080	A1	20060824	2006AU-0215080	20060216
CA---2598294	A1	20060824	2006CA-2598294	20060216
EP---1849773	A1	20071031	2006EP-0713839	20060216
R: AT, BE, BG, CH, CY, CE, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
IN2007CNO3607	A	20071116	2007IN-CNO3607	20070817
KR2007107122	A	20071106	2007KR-0720924	20070913
PRAI 2005JP-040197	A	20050217		
2005JP-0303065	A	20051018		
WO 2006-JP302698	W	20060216		
OS MARPAT 145:271810				
GI				



AB Title compds. I [HET = non-aromatic nitrogenated heterocycle; R₁-R₇ = H, OH, cyano, etc.; R₄-R₇ = H, halo, OH, etc.] and their pharmaceutically acceptable salts were prepared. For example, reaction of 3-pyridyl 1-piperazinecarboxylate-2HCl with benzyl chloroformate followed by treatment with p-toluenesulfonic acid afforded compound II p-toluenesulfonic acid salt. In fatty acid amide hydrolase (FAAH) inhibition assays using human bladder epithelial cancer-derived cell, compound II p-toluenesulfonic acid salt exhibited the IC₅₀ value of 0.093 nM. Compds. I are claimed, useful for the treatment of increased urinary frequency, incontinence, etc.

L32 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN

(Continued)

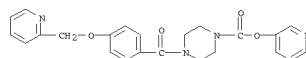
IT 906737-06-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of pyridyl non-aromatic nitrogenated heterocyclic-1-carboxylate ester derivs. as FAAH inhibitors)

RN 906737-06-2 HCAPLUS

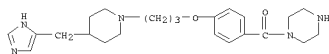
CN 1-piperazinecarboxylic acid, 4-([4-(2-pyridinylmethoxy)benzoyl]-, 3-pyridinyl ester (CA INDEX NAME)



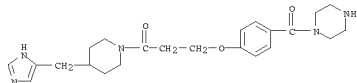
RE.CNT 30

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

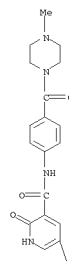
L32 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:453931 HCAPLUS
 DN 144:480417
 TI Reduction of CYP450 inhibition in the 4-[(1H-imidazol-4-ylmethyl)piperidine] series of histamine H3 receptor antagonists. [Erratum to document cited in CA144:246525]
 AU Berlin, Michael; Ting, Pauline C.; Vaccaro, Wayne D.; Aslanian, Robert; McCormick, Kevin D.; Lee, Joe F.; Albanese, Margaret M.; Muthai, Mwangi W.; Piwinski, John J.; Shih, Neng-Yang; Duguma, Lulij; Solomon, Daniel M.; Zhou, Wei; Sher, Rosy; Favreau, Leonard; Bryant, Matthew; Korfmacher, Walter A.; Nardo, Cymbelene; West, Robert E.; Anthes, John C.; Williams, Shirley M.; Wu, Ren-Long; She, H. Susan; Rivelli, Maria A.; Corboz, Michel R.; Hey, John A.
 CS The Schering Plough Research Institute, Kenilworth, NJ, 07033, USA
 SO Bioorganic & Medicinal Chemistry Letters (2006), 16(12), 3342
 CODEN: BMCLDH; ISSN: 0960-894X
 PB Elsevier B.V.
 DT Journal
 LA English
 AB The publisher regrets that Reference 9 was not listed correctly and should read: "Vaccaro, W. D.; Sher, R.; Berlin, M.; Shih, N.-Y.; Aslanian, R.; Schwerdt, J. H.; McCormick, K. D.; Piwinski, J. J.; West, R. E., Jr.; Anthes, J. C.; Williams, S. M.; Wu, P.-L.; She, H. S.; Rivelli, M. A.; Mutter, J. C.; Corboz, M. R.; Hey, J. A.; Favreau, L. Bioorg. Med. Chemical Lett. 2006, 16, 395."
 IT 877141-93-0P 877141-96-3P
 RL PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and structure activity relations of imidazolmethylpiperidine H3 antihistamines with reduced activity towards inhibition of CYP450 (Erratum))
 RN 877141-93-0 HCAPLUS
 CN Piperazine, 1-[4-[3-[4-(1H-imidazol-4-ylmethyl)-1-piperidinyl]-3-piperidinyl]propoxy]benzoyl- (9CI) (CA INDEX NAME)



RN 877141-96-3 HCAPLUS
 CN Piperazine, 1-[4-[3-[4-(1H-imidazol-4-ylmethyl)-1-piperidinyl]-3-oxopropoxy]benzoyl- (9CI) (CA INDEX NAME)



L32 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:333943 HCAPLUS
 DN 145:62755
 TI Polymer-Supported Synthesis of Pyridone-Focused Libraries as Inhibitors of Anaplastic Lymphoma Kinase
 AU Zhu, Tong; Yan, Zheng; Chucholowski, Alexander; Webb, Thomas R.; Li, Rongshi
 CS Department of High Throughput Medicinal Chemistry, ChemBridge Research Laboratories, San Diego, CA, 92127, USA
 SO Journal of Combinatorial Chemistry (2006), 8(3), 401-409
 CODEN: JCCHFF; ISSN: 1520-4766
 DT Journal
 PB American Chemical Society
 LA English
 AB Two series of arylpyridonecarboxamides were prepared by solid-phase synthesis as potential inhibitors of anaplastic lymphoma kinase.
 IT 890652-12-7P
 RL SPN (Synthetic preparation); PREP (Preparation)
 (polymer-supported synthesis of pyridone-focused libraries as inhibitors of anaplastic lymphoma kinase)
 RN 890652-12-7 HCAPLUS
 CN 3-Pyridinecarboxamide, 5-(1,3-benzodioxol-5-yl)-1,2-dihydro-N-[4-[(4-methyl-1-piperazinyl)carbonyl]phenyl]-2-oxo- (CA INDEX NAME)



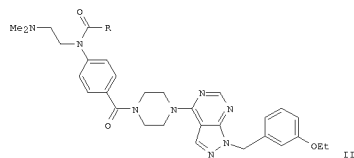
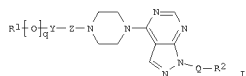
PAGE 1-A

PAGE 2-A

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:192756 HCAPLUS
 DN 144:274288
 TI Preparation of pyrazolopyrimidine compounds as SK channel blockers
 IN Takamuro, Iwao; Sekine, Yasuo; Tsuboi, Yasunori; Noshiro, Hiroshi; Taniguchi, Hiroyuki
 PA Tanabe Sellyaku Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 298 pp.
 CODEN: JKKXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

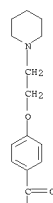
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2004JP-0216519	A	20040723		
MARPAT 144:274288				



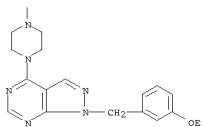
AB Title compds. I [R1 = substituted aryl, (un)substituted aliphatic heteromonocycle containing N, substituted cycloalkyl, etc.; R2 = (un)substituted heteroaryl, (un)substituted aryl; Z = single bond, alkylene, alkenylene; Z = -CO-, -CH2-, -SO2-, etc.; Q = alkylene; q = 0, 1] were prepared. For example, hydrolysis of 4-[N-(cyclopropylcarbonyl)-N-(2-(dimethylamino)ethyl)amino]benzoic acid Et ester, e.g., prepared from 4-fluorobenzoic acid Et ester in 3 steps, followed by EDCI mediated amidation with 1-(3-ethoxybenzyl)-4-piperazin-1-yl-1H-pyrazolo[3,4-d]pyrimidine-2HCl afforded compound II [R = cyclopropyl]. In 125I-apamin binding inhibition assays, IC50 value of compound II [R = methyl] hydrochloride was 0.06 μM. Compds. I are claimed useful for the treatment of irritable bowel disease, Alzheimer type-dementia, etc.
 IT 733771-64-7P 733776-46-0P 733780-16-0P
 733780-14-8P 733780-15-9P 733780-16-0P
 733780-17-1P 733780-18-2P 733780-19-3P
 733780-20-6P 733780-21-7P 878135-19-4P
 878135-21-8P 878135-22-9P
 RL PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of pyrazolopyrimidine compds. as SK channel blockers for treatment of irritable bowel disease, Alzheimer type-dementia, etc.)
 RN 733771-64-7 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-4-[4-[2-(1-piperidinyl)ethoxy]benzoyl]- (9CI) (CA INDEX NAME)

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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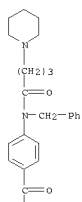
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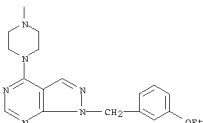
RN 733776-46-0 HCAPLUS
 CN 1-Piperidinebutanamide, N-[4-[(4-[1-(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl)carbonyl]phenyl]-N-(phenyl)methyl-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

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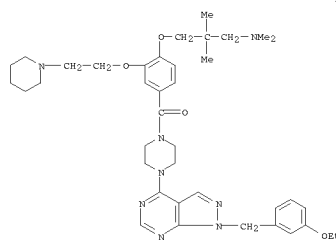


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 CN Piperazine, 1-[4-[3-(dimethylamino)-2,2-dimethylpropoxy]-3-[2-(1-piperidinylethoxy)benzoyl]-4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

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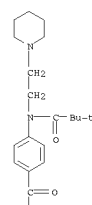


● 2 HCl

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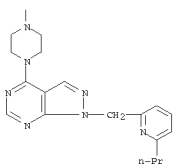
RN 733780-14-8 HCAPLUS
 CN Propanamide, 2,2-dimethyl-N-[2-(1-piperidinylethyl)-N-[4-[[4-[1-[(6-propyl-2-pyridinyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

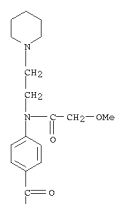
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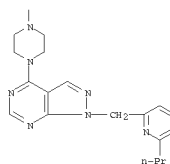
RN 733780-15-9 HCAPLUS
 CN Acetamide, 2-methoxy-N-[2-(1-piperidinylethyl)-N-[4-[[4-[1-[(6-propyl-2-pyridinyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

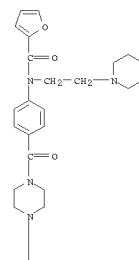
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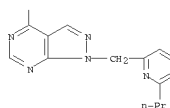
● 2 HCl

RN 733780-16-0 HCAPLUS
 CN 2-Furancarboxamide, N-[2-(1-piperidinylethyl)-N-[4-[[4-[1-[(6-propyl-2-pyridinyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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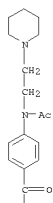


● 2 HCl

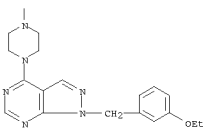
RN 733780-17-1 HCAPLUS

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 CN Acetamide, N-[4-[[4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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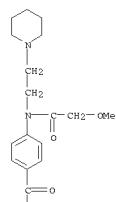


● 2 HCl

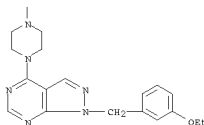
RN 733780-18-2 HCAPLUS
 CN Acetamide, N-[4-[[4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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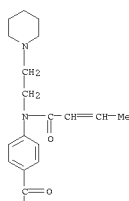


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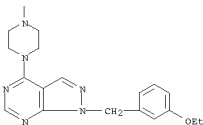
RN 733780-19-3 HCAPLUS
 CN 2-Butenamide, N-[4-[[4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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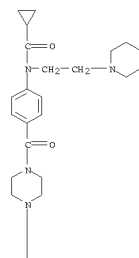


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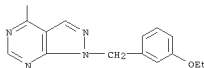
RN 733780-20-6 HCAPLUS
 CN Cyclopropanecarboxamide, N-[4-[[4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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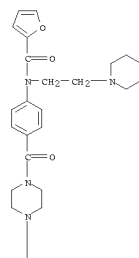
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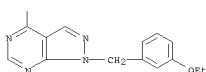
● 2 HCl

RN 733780-21-7 HCAPLUS
 CN 2-Furancarboxamide, N-[4-[[4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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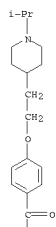
L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)



● 2 HCl

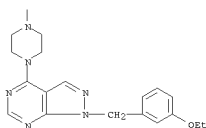
RN 878135-19-4 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-4-[4-[2-[1-(1-methylethyl)-4-piperidinyl]ethoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

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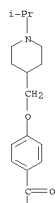
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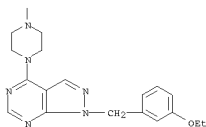


L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

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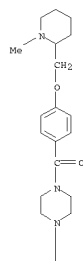


● HCl

L32 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN (Continued)

RN 878135-21-8 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-4-[4-[1-(1-methyl-2-piperidinyl)methoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

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● HCl

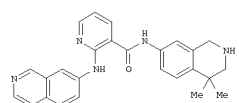
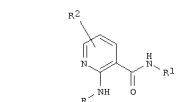
PAGE 2-A

RN 878135-22-9 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-4-[4-[1-(1-methylethyl)-4-piperidinyl]methoxy]benzoyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2008 ACS on SIN

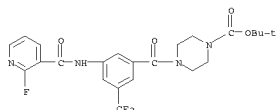
AN 2006:104503 HCAPLUS
 DN 144:192119
 TI Preparation of substituted arylamine derivatives, particularly 2-aminonicotinamides, as antitumor agents
 IN Yuan, Chester Chenguang; Yang, Kevin; Vanderplas, Simon; Riahi, Babak; Potashman, Michele; Patel, Vinod F.; Nomak, Rana; Li, Aiwon; Huang, Qi; Harmange, Jean-Christophe; Askew, Benny C., Jr.
 PA Amgen Inc., USA
 SO PCT Int. Appl., 351 pp.
 CODEN: FIXXD2
 DT Patent
 LA English
 FBR.CYT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2006012374	A1	20060202	2005WO-US25800	20050720
W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GM, GN, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, HE, LS, OM, PG, NA, SD, SE, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM US2006040966 A1 20060223 2005US-0185556 20050719 AU2005267161 A1 20060202 2005AU-0267161 20050720 CA---2571627 A1 20060202 2005CA-2571627 20050720 EP---1773817 A1 20070418 2005EP-0791799 20050720 R: AT, BE, BG, CH, CI, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU PRAI 2004US-590544P P 20040722 2005US-0185556 A2 20050719 2005WO-US25800 W 20050720 OS MARPAT 144:192119 GI				



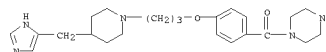
AB Title compds. I (R = (un)substituted 9- or 10-membered heterocyclyl selected from 7-isquinolinyl, 1-oxo-2,3-dihydrobenzofuran-4-yl, 1,6-naphthyridin-3-yl, etc.; R1 = (un)substituted Ph, 5-6 membered heteroaryl, 9-10 membered bicyclic heterocyclyl, 11-14 membered tricyclic heterocyclyl; R2 = H, halo, halo/alkyl, and their analogs, and their pharmaceutically acceptable derivs., are prepared and disclosed as agents effective for treatment of angiogenesis and related diseases such as cancer. Thus, acylation of 7-amino-4,4-dimethyl-3,4-dihydro-1H-

L32 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 AN isouquinoline-2-carboxylic acid tert-butyl ester with 2-chloropiperidine-3-carbonyl chloride, followed by amination of the chloride intermediate (no data) with 7-aminoisouquinoline and deprotection gave amide II•HCl.
 IT Selected I inhibited VEGF-stimulated HUVEC proliferation at a level below 1 µM. In the tumor model, I are active at doses less than 150 mpk.
 RN 442846-74-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 CN (intermediate; preparation of substituted aminocotinamides as antitumor agents)
 RN 442846-74-4 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-[(2-fluoro-3-pyridinyl)carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

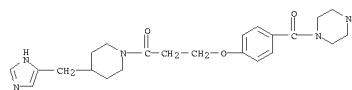


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:16640 HCAPLUS
 DN 144:246525
 IT Reduction of CYP450 inhibition in the 4-[(1H-imidazol-4-yl)methyl]piperidine series of histamine H3 receptor antagonists
 AU Berlin, Michael; Ting, Pauline C.; Vaccaro, Wayne D.; Aslanian, Robert; McCormick, Kevin D.; Lee, Joe F.; Albanese, Margaret M.; Mutahi, Mwangi W.; Pwinski, John J.; Shin, Neng-Yang; Duguna, Lull; Solomon, Daniel M.; Zhou, Wei; Sher, Rosy; Favreau, Leonard; Bryant, Matthew; Kornacher, Walter A.; Nardo, Cymbelene; West, Robert E.; Anthes, John C.; Williams, Shirley M.; Wu, Ren-Long; She, H. Susan; Rivelli, Maria A.; Corboz, Michel R.; Hey, John A.
 CS The Schering Plough Research Institute, Kenilworth, NJ, 07033, USA
 SO Bioorg. Med. Chem. Lett. (2006), 16(4), 989-994
 CODEN: BMCL68; ISSN: 0960-894X
 PB Elsevier B.V.
 DT Journal
 LA English
 AB A novel series of histamine H3 receptor antagonists based on the 4-[(1H-imidazol-4-yl)methyl]piperidine template displaying low CYP2D6 and CYP3A4 inhibitory profiles has been identified. Structural features responsible for the reduction of P 450 activity, a typical liability of 4-substituted imidazoles, have been established.
 IT 877141-93-OP 877141-96-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 CN (preparation and structure activity relations of imidazolmethylpiperidine H3 antihistamines with reduced activity towards inhibition of CYP450)
 RN 877141-93-0 HCAPLUS
 CN Piperazine, 1-[4-[3-[4-(1H-imidazol-4-ylmethyl)-1-piperidinyl]propoxy]benzoyl]- (9CI) (CA INDEX NAME)

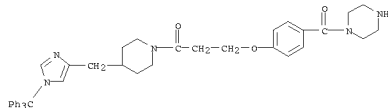


RN 877141-96-3 HCAPLUS
 CN Piperazine, 1-[4-[3-[4-(1H-imidazol-4-ylmethyl)-1-piperidinyl]-3-oxopropoxy]benzoyl]- (9CI) (CA INDEX NAME)

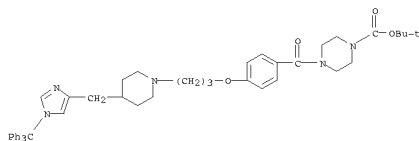


IT 925415-75-4P 925439-00-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 CN (preparation and structure activity relations of imidazolmethylpiperidine H3 antihistamines with reduced activity towards inhibition of CYP450)
 RN 925415-75-4 HCAPLUS
 CN 1-Propanone, 3-[4-(1-piperazinylcarbonyl)phenoxy]-1-[4-[(1-(triphenylmethyl)-1H-imidazol-4-yl)methyl]-1-piperidinyl]- (CA INDEX NAME)

L32 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



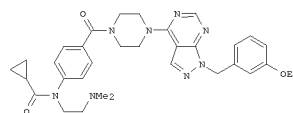
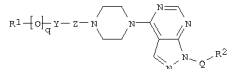
RN 925439-00-5 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[4-[3-[4-[(1-(triphenylmethyl)-1H-imidazol-4-yl)methyl]-1-piperidinyl]propoxy]benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:633436 HCAPLUS
 DN 141:174191
 IT Preparation of pyrazolopyrimidines as a small conductance potassium channel (SK channel) blocking agents
 IN Takamuro, Iwao; Sekine, Yasuo; Tsuboi, Yasunori; Nogi, Kouji; Taniguchi, Hiroyuki
 PA Tanabe Seiyaku Co., Ltd., Japan
 SO PCT Int. Appl., 306 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

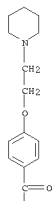
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO20040464721	A2	20040805	2004WO-JP00617	20040123
WO20040464721	A3	20040923		
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JP2005162726	A	20050623	2004JP-0014376	20040122
EP-----1585481	A2	20051019	2004EP-0704773	20040123
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CN-----1742013	A	20060301	CN 2004-80002601	20040123
EP-----1857459	A2	20071121	2007EP-0015684	20040123
EP-----1857459	A3	20071128		
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US2006135525	A1	20060622	2005US-0542081	20050713
PRAI 2003JP-0016770	A	20030124		
2003JP-0205341	A	20030801		
2003JP-0365399	A	20031114		
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GI				



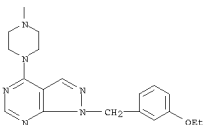
AB The title compds. [I; R1 = substituted aryl, (un)substituted nitrogen-containing aliphatic heteromonocycl, substituted cycloalkyl, (un)substituted amino, or substituted heteroaryl; R2 = (un)substituted (hetero)aryl; Y = a single bond, alkylene or alkenylene; Z = CO, CH2, SO2, C≡N(CN); Q = alkylene; q = 0-1] and their pharmaceutically acceptable salts, which have a small conductance potassium channel (SK channel) blocking activity, were prepared. Thus, treating Et 4-[N-(cyclopropylcarbonyl)-N-(2-(dimethylamino)ethyl)amino]benzoate (preparation given with CN NaOH solution followed by treatment with 2N HCl, and the reaction of the resulting acid with 1-(3-ethoxybenzyl)-4-(piperazin-1-yl)-1H-pyrazol[3,4-d]pyrimidine dihydrochloride afforded 844 II which showed

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 an excellent apamin-binding inhibitory activity (IC50 of 0.03 µM). The
 pharmaceutical compn. comprising the compd. I is claimed.
 IT 733771-64-7P 733774-64-6P 733774-66-8P
 733774-67-9P 733776-46-0P 733778-16-0P
 733780-14-8P 733780-15-9P 733780-16-0P
 733780-17-1P 733780-18-2P 733780-19-3P
 733780-20-6P 733780-21-7P
 RU: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (preparation of pyrazolopyrimidines as a small conductance potassium channel
 (SK channel) blocking agents)
 RN 733771-64-7 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-
 yl]-4-[4-[2-(1-piperidinyl)ethoxy]benzoyl]- (9CI) (CA INDEX NAME)

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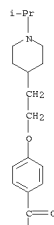


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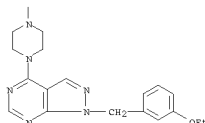


RN 733774-64-6 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-
 yl]-4-[4-[2-(1-(3-methylethyl)-4-piperidinyl)ethoxy]benzoyl]-,
 hydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
 PAGE 1-A



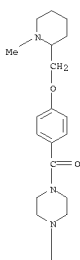
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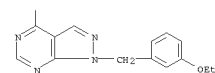
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RN 733774-66-8 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-
 yl]-4-[4-[2-(1-methyl-2-piperidinyl)methoxy]benzoyl]-, hydrochloride (9CI)
 (CA INDEX NAME)

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)
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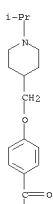
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●R HCl

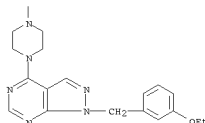
RN 733774-67-9 HCAPLUS
 CN Piperazine, 1-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-
 yl]-4-[4-[2-(1-methylethyl)-4-piperidinyl)methoxy]benzoyl]-,
 hydrochloride (9CI) (CA INDEX NAME)

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L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

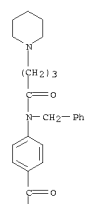
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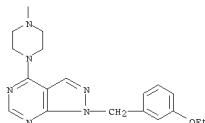
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RN 733776-46-0 HCAPLUS
 CN 1-Piperidinebutanamide, N-[4-[[4-[1-[(3-ethoxyphenyl)methyl]-1H-
 pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-
 (phenylmethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

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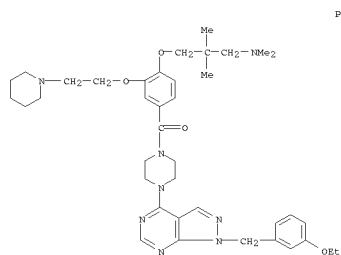


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L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 733778-16-0 HCAPLUS

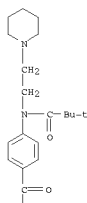
CN Piperazine, 1-[4-[3-(dimethylamino)-2,2-dimethylpropoxy]-3-[2-(1-piperidinyl)ethoxy]benzoyl]-4-[3-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

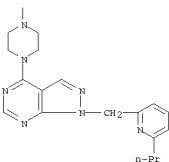
RN 733780-14-8 HCAPLUS

CN Propanamide, 2,2-dimethyl-N-[2-(1-piperidinyl)ethyl]-N-[4-[(4-[1-[(6-propyl-2-pyridinyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl)carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

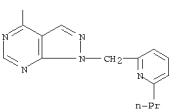
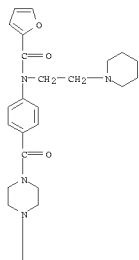
PAGE 2-A



● 2 HCl

RN 733780-16-0 HCAPLUS

CN 2-Furancarboxamide, N-[2-(1-piperidinyl)ethyl]-N-[4-[(4-[1-[(6-propyl-2-pyridinyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl)carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

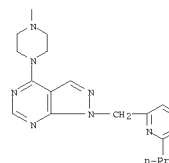


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RN 733780-17-1 HCAPLUS

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

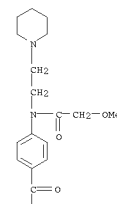
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● 2 HCl

RN 733780-15-9 HCAPLUS

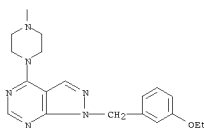
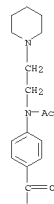
CN Acetamide, 2-methoxy-N-[2-(1-piperidinyl)ethyl]-N-[4-[(4-[1-[(6-propyl-2-pyridinyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl)carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)



L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CN Acetamide, N-[4-[(4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl)carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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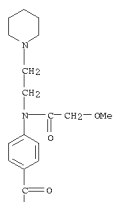
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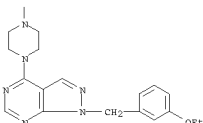
CN Acetamide, N-[4-[(4-[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl)carbonyl]phenyl]-2-methoxy-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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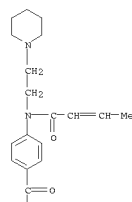


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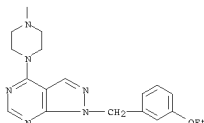
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L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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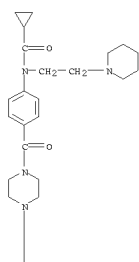


● 2 HCl

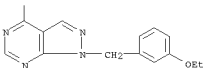
RN 733780-20-6 HCAPLUS
 CN Cyclopropanecarboxamide, N-[4-[[4-[[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

L32 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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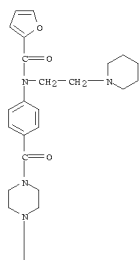
PAGE 2-A



● 2 HCl

RN 733780-21-7 HCAPLUS
 CN 2-Furancarboxamide, N-[4-[[4-[[1-[(3-ethoxyphenyl)methyl]-1H-pyrazolo[3,4-d]pyrimidin-4-yl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-piperidinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

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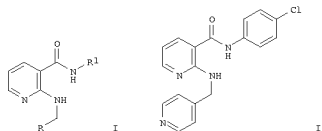


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L26 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:95057 HCAPLUS
 DN 140:16647
 TI Preparation of 2-aminopyridine-3-carboxamides as remedies for angiogenesis mediated diseases
 IN Askev, Benny; Adams, Jeffrey; Booker, Shon; Chen, Guoqing; DiPietro, Lucian V.; Elbaum, Daniel; Germain, Julie; Geuns-Meyer, Stephanie D.; Hagood, Gregory J.; Handley, Michael; Huang, Qi; Kim, Tae-seong; Li, Aiwu; Nishimura, Nobuko; Nomak, Ranaj; Patel, Vinod P.; Rishi, Babak; Kim, Joseph L.; Xi, Ning; Yang, Kevin; Yuan, Chester Chenguang
 PA Amgen Inc., USA
 SO U.S. Pat. Appl. Publ., 252 pp., Cont.-in-part of U.S. Ser. No. 46,681.
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 DT Patent
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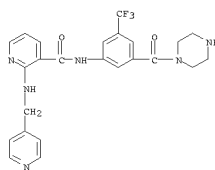
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L26 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



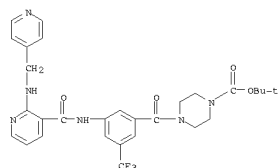
AB The title compds. (I; R = (un)substituted 4-pyridyl, 2-pyridyl, 4-pyrimidinyl, 4-quinolyl, etc.; R1 = (un)substituted aryl, cycloalkyl, 5-6 membered heteroaryl, 9-10 membered bicyclic and 11-14 membered tricyclic heterocyclyl), which are effective for prophylaxis and treatment of diseases and other maladies or conditions involving cancer and the like, were prepared. Thus, the title compound II was prepared from 2-aminonicotinic acid, 4-chloroaniline, and 4-pyridinecarboxaldehyde. The compds. I showed inhibition of KDR kinase at < 50 μ M. Many compds. I inhibited VEGF-stimulated HUVEC proliferation at a level below 50 nM. Pharmaceutical composition comprising the compound I is claimed.
 II 453561-82-5P 453563-43-4P 453563-44-5P 453565-22-5P 453565-23-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (Preparation of 2-aminopyridine-3-carboxamides for treating angiogenesis mediated diseases)

RN 453561-82-5 HCAPLUS
 CN 3-Piperazinecarboxamide, N-[3-((4-pyridinyl)carbonyl)-5-(trifluoromethyl)phenyl]-2-((4-pyridinylmethyl)amino)- (CA INDEX NAME)

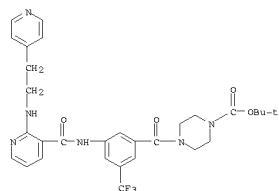


RN 453563-43-4 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-((2-((4-pyridinylmethyl)amino)-3-pyridinyl)carbonyl)amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

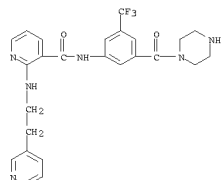
L26 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



RN 453563-44-5 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-((2-((2-((4-pyridinyl)ethyl)amino)-3-pyridinyl)carbonyl)amino)-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

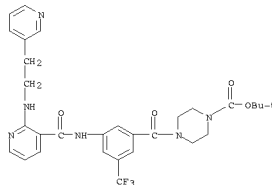


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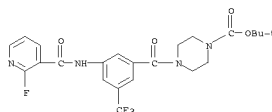
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 CN 1-Piperazinecarboxylic acid, 4-[3-((2-((2-(3-pyridinyl)ethyl)amino)-3-pyridinyl)carbonyl)amino)-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

L26 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



IT 442846-74-4P, 2-Fluoro-N-[3-((4-Boc-piperazin-1-yl)carbonyl)-5-(trifluoromethyl)phenyl]nicotinamide
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation of 2-aminopyridine-3-carboxamides for treating angiogenesis mediated diseases)

RN 442846-74-4 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-((2-fluoro-3-pyridinyl)carbonyl)amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 AN 2003:85865 HCAPLUS
 DN 139:350636
 TI Preparation of amino heteroaryl amides for use in pharmaceutical compositions for the treatment of angiogenesis mediated diseases such as cancer
 IN Patel, Vinod F.; Askew, Benny; Booker, Shon; Chen, Guoqing; DiPietro, Lucian V.; Germain, Julie; Habgood, Gregory J.; Huang, Qi; Kim, Tae-seong; Li, Aiwen; Nishimura, Nobuko; Nomak, Hans; Rahlh, Babak; Yuan, Chester Chenguang; Elbaum, Daniel
 PA Amgen Inc., USA
 SO U.S. Pat. Appl. Publ., 148 pp., Cont.-in-part of U.S. Ser. No. 46,622.
 DT Patent
 LA English
 FAN.CNT 2

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US2003202922	A1	20031030	2002US-0197918	20020717 <--
US----710209	B2	20060905		
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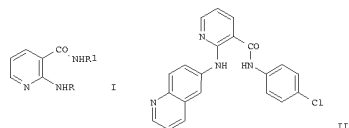
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 EP----1562933 A2 20050817 2003EP-0764755 20030715 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

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 MX2005PA00659 A 20050331 2005MX-PA00659 20050114 <--
 US2006194848 A1 20060831 2006US-0417329 20060502 <--

PRAI 2001US-261882P P 20010112 <--
 2001US-223806P P 20010919 <--
 2002US-0046622 A2 20020110 <--
 2002US-0197918 A 20020717 <--
 2003WO-US22275 W 20030715

OS MAPPAT 139:350636
 GI



AB Amino substituted heteroaryl amides, such as I [R = nitrogen containing heteroaryl, such as quinolinyl, isoquinolinyl, indazolyl; R1 = aryl, cycloalkyl, heteroaryl, heterocyclyl], were prepared for therapeutic use.

L26 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 AN 2003:551181 HCAPLUS
 DN 139:117339
 TI Preparation of substituted arylamine derivatives as antitumor agents
 IN Elbaum, Daniel; Askew, Benny; Booker, Shon; Germain, Julie; Habgood, Gregory; Handley, Michael; Kim, Tae-Seong; Li, Aiwen; Nishimura, Nobuko; Patel, Vinod F.; Yuan, Chester Chenguang; Kim, Joseph L.
 PA Amgen Inc., USA
 SO U.S. Pat. Appl. Publ., 106 pp., Cont.-in-part of U.S. Ser. No. 46,526.
 DT Patent
 LA English
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US2003134836	A1	20030717	2002US-0197960	20020717 <--
US2002147198	A1	20020110	2002US-0046526	20020110 <--
CA----2492164	A1	20040122	2003CA-2492164	20030715 <--
WO2004007457	A2	20040122	2003WO-US22276	20030715 <--
WO2004007457	A3	20050804		

W: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CE, DE, DK, DM, DS, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, ME, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

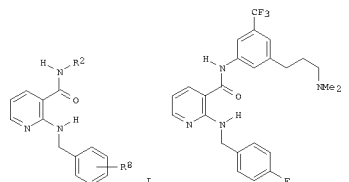
AU2003256577 A2 20040202 2003AU-0256577 20030715 <--
 EP----1583744 A2 20051012 2003EP-0764756 20030715 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP20060505511 T 20060216 2004JP-0521923 20030715 <--
 US20040204437 A1 20041014 2004US-0823809 20040412 <--
 US----7101868 B2 20060905
 US2005153960 A1 20050714 2004US-0996035 20041122 <--
 MX2005PA00651 A 20050331 2005MX-PA00651 20050114 <--

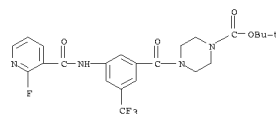
PRAI 2001US-261360P P 20010112 <--
 2001US-223806P P 20010919 <--
 2002US-0046526 A2 20020110 <--
 2002US-0197960 A 20020717 <--
 2003WO-US22276 W 20030715
 2004US-0823809 A1 20040412

OS MAPPAT 139:117339
 GI



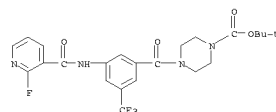
AB The title compds. I [R2 = (un)substituted Ph, 9-10 membered bicyclic and 11-14 membered tricyclic (un)saturated heterocyclyl; R8 = halo, NM2, NO2, etc.], and their pharmaceutically acceptable derivs., are prepared and disclosed as agents effective for prophylaxis and treatment of diseases, such as angiogenesis mediated diseases. E.g., a multi-step synthesis of II, starting from 1-dimethylamino-2-propyne and 3-bromo-5-trifluoromethylaniline, was given. Selected compds. of the invention,

L26 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 The invention encompasses novel compds., analogs, prodrugs and pharmaceutically acceptable salts thereof, pharmaceutical compns. and methods for prophylaxis and treatment of cancer, angiogenesis related disorders, KDR-related disorders, cell proliferation related disorders, inflammation, reducing blood flow in tumors, reducing tumor size and diabetic retinopathy. Thus, amide II was prepd. via an amination reaction of 2-chloronicotinic acid with 6-aminoquinoline followed by an amidation reaction of the aminonicotinic acid deriv. thus formed with 4-chloroaniline. Biol. evaluations included HUVEC proliferation assay, inhibition of angiogenesis in the rat corneal neovascularization micro-pocket model, and antitumor activity using A431 rat tumor cells.
 442846-74-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of aminopyridinecarboxamides for therapeutic use in treatment of angiogenesis mediated diseases such as cancer)
 RN 442846-74-4 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-[[[2-fluoro-3-pyridinyl]carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



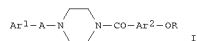
RE.CNT 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 e.g., II, inhibited VEGF-stimulated cell proliferation at a level below 50 nM. The invention encompasses novel compds., analogs, prodrugs and pharmaceutically acceptable derivs. thereof, pharmaceutical compns. and methods for prophylaxis and treatment of diseases and other maladies or conditions involving, cancer and the like.
 442846-74-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of substituted aminopyridines as antitumor agents)
 RN 442846-74-4 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-[[[2-fluoro-3-pyridinyl]carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



L26 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 AN 2002:847772 HCAPLUS
 DN 137:353063
 TI Preparation of piperazines as antidiabetic agents
 IN Maruta, Katsunori; Iwai, Kiyotaka; Toshiida, Kozo; Nagata, Tatsu
 PA Sumitomo Pharmaceuticals Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 32 pp.
 CODEN: JKKXAF
 DT Patent
 LA Japanese
 FAH.CNT 1

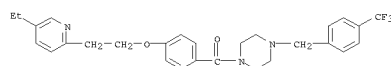
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRAI 2001JP-0123655		20010420	<--	
OS MARPAT 137:353063				
GI				



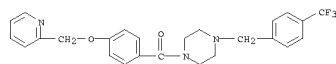
AB The compds. I (Ar1 = substituted Ph, (un)substituted monocyclic heteroaryl, dicyclic aryl, dicyclic heteroaryl; Ar2 = (un)substituted phenylene, dicyclic arylene, monocyclic heteroarylene, dicyclic heteroarylene; A = methylene, ethylene; R = XTA3; X = Cl-5 alkylene; Y = single bond, NR1, O; R1 = H, Me, Et; A13 = (un)substituted Ph, monocyclic heteroaryl, dicyclic aryl, dicyclic heteroaryl) or their pharmaceutically acceptable salts are prepared. 2-(5-Ethyl-2-pyridyl)ethanol was esterified with methyl chloride in the presence of Et3N in THF at room temperature for 1 h and reacted with 4-[(4-(4-(trifluoromethyl)benzyl)-1-piperazinyl)carbonyl]phenol in the presence of K2CO3 in DMF at 100° for 5 h to give 638. 1-[4-(2-(5-ethyl-2-pyridyl)ethoxy)benzoyl]-4-[(4-(trifluoromethyl)benzyl)piperazine], which was administered in mice at 128 mg/kg/day, resulting in blood glucose level 522.3±89.4 mg/dl, while 548.8±61.6 mg/dl at 0 mg/kg/day.

IT 474658-07-3P 474658-93-0P 474659-01-3P
 474659-12-6P 474659-14-6P 474659-16-0P
 474659-17-1P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of piperazines as antidiabetic agents)

RN 474658-07-2 HCAPLUS
 CN Piperazine, 1-[4-[2-(5-ethyl-2-pyridinyl)ethoxy]benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



RN 474659-93-0 HCAPLUS
 CN Piperazine, 1-[4-(2-pyridinylmethoxy)benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)

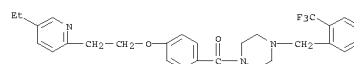


L26 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 AN 2002:736215 HCAPLUS
 DN 137:247488
 TI Preparation of C-organooxy- and N-substituted aniline and diphenylamine analogs as phosphodiesterase 4 inhibitors useful for enhancing cognition
 IN Hopper, Allen; Schumacher, Richard A.; Tehim, Ashok; De Vivo, Michael; Brubaker, William Frederick, Jr.; Liu, Ruiping; Hess, Hans-Juergen Ernst; Unterbeck, Axel
 PA Memory Pharmaceuticals Corporation, USA
 SO PCT Int. Appl., 131 pp.
 CODEN: PIXX25
 DT Patent
 LA English
 FAH.CNT 2

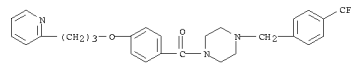
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RW: GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU2002303078	B2	20070830		
US2002151566	A1	20020117	2002US-0051309	20020122 <--
US-----6699890	B2	20040302		
EP-----1353907	A2	20031022	2002EP-0731078	20020122 <--
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EE-200300347	A	20031215	2003EE-000347	20020122 <--
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JP2005057365	T	20050317	2002JP-0573735	20020122 <--
BR2002006943	A	20060124	2002BR-0006943	20020122 <--
NE-----527081	A	20060331	2002NE-0527081	20020122 <--
US2003149052	A1	20030807	2003US-0361634	20030211 <--
US2004087584	A1	20040506	2003US-0622117	20030718 <--
US-----153871	B2	20061226		
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IN2003DN01131	A	20070316	2003IN-DN01131	20030718 <--
NO2003003288	A	20030922	2003NO-0003288	20030721 <--
ZA2003005623	A	20041117	2003ZA-0005623	20030721 <--
MX2003PA06519	A	20040105	2003MX-PA06519	20030722 <--
US2004230072	A1	20041118	2004US-0754600	20040112 <--
US-----7205320	B2	20070417		
US2007078139	A1	20070405	2006US-0602283	20061121
PRAI 2001US-262651P	P	20010122	<--	
2001US-267196P	P	20010208	<--	
2001US-306140P	P	20010719	<--	
2000US-257196P	P	20010222	<--	
2002US-0051309	A3	20020122	<--	
2002US-0051390	A3	20020122	<--	
2002US-0501508	W	20020122	<--	
2002US-396726P	P	20020719	<--	
2004US-0754600	A3	20040112	<--	
OS MARPAT 137:247488				

AB Phosphodiesterase 4 (PDE4) inhibition is achieved by novel compds., 4-R10-3-R2OC6H3NR3R4 (1, e.g., N-substituted aniline and diphenylamine analogs; e.g. 3-cyclopentyl-4-methyl-4-methoxy-N-(3-pyridinylmethyl)diphenylamine). R1, R2, R3, R4 are Cl-4 alkyl, unsubstituted or substituted one or more times by halogen. R2 is Cl-12 alkyl, wherein optionally one or more -CH2CH2- groups are replaced in each case by -CH=CH- or -C≡C- bond. C6, C3-10 cycloalkyl, C6-16 cycloalkylalkyl, C6-14 aryl, arylalkyl with C6-14 aryl and Cl-5 alkyl, a partially unsatd. C5-14 carbocyclic group, a C5-10 heterocyclic group, which is saturated, partially saturated or unsatd., in which at least 1 ring atom is a N, O or S atom, or a heterocycloalkyl group with a C5-10 heterocyclic portion that is saturated, partially saturated or unsatd., in which at least 1 ring atom is a N, O or S atom, and a Cl-5 alkyl portion. R3 is H, Cl-8 (preferably Cl-4) alkyl, a

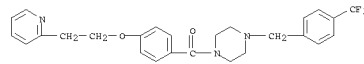
L26 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 RN 474659-01-3 HCAPLUS
 CN Piperazine, 1-[4-[2-(5-ethyl-2-pyridinyl)ethoxy]benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



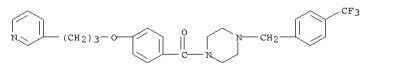
RN 474659-12-6 HCAPLUS
 CN Piperazine, 1-[4-[2-(2-pyridinyl)propoxy]benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



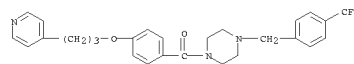
RN 474659-14-8 HCAPLUS
 CN Piperazine, 1-[4-[2-(2-pyridinyl)ethoxy]benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



RN 474659-16-0 HCAPLUS
 CN Piperazine, 1-[4-[2-(3-pyridinyl)propoxy]benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



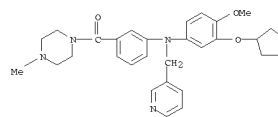
RN 474659-17-1 HCAPLUS
 CN Piperazine, 1-[4-[3-(4-pyridinyl)propoxy]benzoyl]-4-[(4-(trifluoromethyl)phenyl)methyl]- (9CI) (CA INDEX NAME)



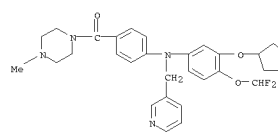
L26 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
 partially unsatd. carbocycle-alkyl group with a C5-14 carbocyclic portion and a Cl-5 alkyl portion. C7-19 arylalkyl with C6-14 aryl and Cl-5 alkyl, or heteroarylalkyl with C5-10 heteroaryl having at least 1 ring atom N, O or S atom and with Cl-5 alkyl. R4 is H, C6-14 aryl or heteroaryl having 5 to 10 ring atoms in which at least 1 ring atom is a heteroatom. Addnl. restrictions on the values of R1-R4 are given in the claims. The amnesic effect of MK-801 on working memory in rats (radial arm maze task) is reversed in a statistically significant manner by the administration of actual test compds. in a dose-dependent fashion (e.g., 3-cyclopentyl-4-methoxy-N-(3-pyridinylmethyl)diphenylamine, ED = 2.5 mg/kg, i.p.; p<0.01). The amnesic effect of MK-801 on rats in a passive avoidance expt. is reversed in a statistically significant manner by actual test compds. in a dose-dependent fashion (e.g., 3-cyclopentyl-4-methoxy-N-(3-pyridinylmethyl)diphenylamine, ED range = 0.5 to 2.5 mg/kg, i.p.; and N-(3-cyclopentyl-4-methoxyphenyl)-N-(3-pyridinylmethyl)-3-aminobenzoic acid, ED range = 0.1 to 2.5 mg/kg, i.p.). Although the methods of prepn. are not claimed, approx. 20 example prepn. are included and hundreds of compds. are listed in the claims.

IT 460081-58-7P, 3-Cyclopentyl-4-methoxy-3'-(4-methylpiperazin-1-yl)carbonyl-N-(3-pyridinylmethyl)diphenylamine 460081-58-8P, 3-Cyclopentyl-4-methoxy-4'-(4-methylpiperazin-1-yl)carbonyl-N-(3-pyridinylmethyl)diphenylamine 460081-60-1P, 4-Methoxy-4'-(4-methylpiperazin-1-yl)carbonyl-N-(3-pyridinylmethyl)-3-(3-tetrahydrofuryloxy)diphenylamine
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of C-organooxy- and N-substituted aniline and diphenylamine analogs as phosphodiesterase 4 inhibitors useful for enhancing cognition)

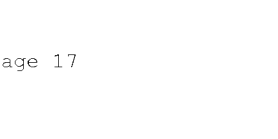
RN 460081-58-7 HCAPLUS
 CN Piperazine, 1-[3-[(3-(cyclopentyl-4-methoxyphenyl)-3-pyridinylmethyl)amino]benzoyl]-4-methyl- (9CI) (CA INDEX NAME)



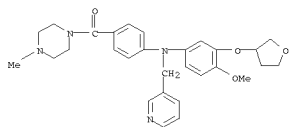
RN 460081-59-8 HCAPLUS
 CN Piperazine, 1-[4-[3-(cyclopentyl-4-methoxyphenyl)-3-pyridinylmethyl)amino]benzoyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 460081-60-1 HCAPLUS
 CN Piperazine, 1-[4-[4-methoxy-3-[(tetrahydro-3-furyl)oxy]phenyl]-3-pyridinylmethyl)amino]benzoyl]-4-methyl- (9CI) (CA INDEX NAME)



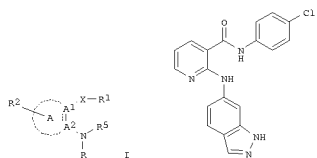
L26 ANSWER 5 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



L26 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2002:676007 HCAPLUS
 DN 137:216945
 TI Preparation of substituted 2-[(1H-indazol-6-ylamino)nicotinamides for treating KDR-related diseases
 IN Chen, Guoqing; Adams, Jeffrey; Bemis, Jean; Croghan, Michael; DiPietro, Lucian; Dominguez, Celia; Elbaum, Daniel; Germain, Julie; Huang, Qi; Kim, Joseph L.; Ouyang, Xiaohu; Patel, Vinod F.; Smith, Leon M.; Tasker, Andrew; Xi, Ning; Xu, Shimin; Yuan, Chester Chenguang; Kim, Tae-Seong
 PA Amgen Inc., USA
 SO PCT Int. Appl., 395 pp.
 COEN: PIXXD2
 DT Patent
 LA English
 FAN, CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2002068406	A2	20020906	2002WO-US03064	20020111 <--
WO2002068406	A3	20030424		
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RW: GH, GM, KE, LS, MW, MG, SD, SL, SE, TE, UG, ZM, ZW, AM, AE, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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US-----7105682	B2	20060912		
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AU2002253890	A1	20020912	2002AU-0253890	20020111 <--
HU2003002719	A2	20031128	2003HU-0002719	20020111 <--
HU2003002719	A3	20070828		
EE-200300325	A	20031215	2003EE-000325	20020111 <--
JP2004527499	T	20040909	2002JP-0567920	20020111 <--
CN-----1538836	A	20041020	2002CN-0806467	20020111 <--
EP-----1467721	A2	20041020	2002EP-0723086	20020111 <--
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MX2003PA06260	A	20030922	2003MX-PA06260	20030711 <--
BG-----108013	A	20040430	2003BG-0108013	20030721 <--
US2006194848	A1	20060831	2006US-0417329	20060502 <--
2001US-261882P	P	20010112	<--	
2001US-323808P	P	20010919	<--	
2002US-0046622	A	20020110	<--	
2002WO-US03064	W	20020111	<--	
OS MAPPAT 137:216945				
GI				



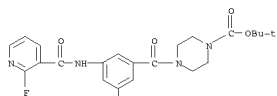
AB The title compds. (I; each of A1 and A2 = C, CH, N; A = 5-6 membered

L26 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

partially satd. heterocyclyl, 5-6 membered heteroaryl, 9-11 membered fused partially satd. heterocyclyl, etc.; X = C(12)N(R5a)R4; Z = O, S; R = (un)substituted 4-6 membered heterocyclyl, aryl, fused 9-14 membered bicyclic or tricyclic heterocyclyl; R1 = (un)substituted 6-10 membered aryl, 4-6 membered heterocyclyl, cycloalkyl, etc.; R2 = H, halo, cycloalkyl, etc.; R4 = a bond, alkylene, alkenylene, etc.; R5 = H, alkyl, (un)substituted Ph, aralkyl; R5a is not defined) which are effective for prophylaxis and treatment of diseases, such as angiogenesis mediated diseases, were prepd. Thus, heating N-(4-chlorophenyl)-2-chloro-3-pyridinecarboxamide with 6-aminoindazole at 150° for 2 h afforded

II which inhibited VEGF-stimulated HUVEC proliferation at level below 50 nM. Comps. I showed inhibition of KDR at doses less than 50 μM.
 442846-74-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of substituted 2-[(1H-indazol-6-ylamino)nicotinamides for treating KDR-related diseases)

RN 442846-74-4 HCAPLUS
 CN 1-Piperazinecarboxylic acid, 4-[3-[[[2-fluoro-3-pyridinyl]carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

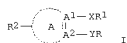


L26 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2002:658116 HCAPLUS
 DN 137:201332
 TI Preparation of heterocyclylalkylamine derivatives as remedies for angiogenesis mediated diseases
 IN Chen, Guoqing; Adams, Jeffrey; Bemis, Jean; Booker, Shon; Cai, Guolin; Croghan, Michael; DiPietro, Lucian; Dominguez, Celia; Elbaum, Daniel; Germain, Julie; Geuns-Meyer, Stephanie; Handley, Michael; Huang, Qi; Kim, Joseph L.; Kim, Tae-seong; Kiselyov, Alexander; Ouyang, Xiaohu; Patel, Vinod F.; Saez, Leon M.; Saez, Markian; Tasker, Andrew; Xi, Ning; Xu, Shimin; Yuan, Chester Chenguang
 PA Amgen Inc., USA
 SO PCT Int. Appl., 502 pp.
 COEN: PIXXD2
 DT Patent
 LA English
 FAN, CNT 2

English				
PAT. CNT 2				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO/2002/066470	A1	20020829	2002WO-US00743	20020111 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KS, LC, LR, LS, LT, LU, LV, MA, MD, ME, MK, MN, MW, MX, ME, NO, NE, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, ME, SD, SL, SE, TG, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, MU, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US2003125339	A1	20030703	2002US-0046681	20020110 <--
US-----6995162	B2	20060207		
CA-----2434277	A1	20020829	2002CA-2434277	20020111 <--
AU2002248340	A1	20020904	2002AU-0248340	20020111 <--
BR2002006435	A	20030923	2002BR-006435	20020111 <--
EP-----1358184	A1	20031105	2002EP-0717325	20020111 <--
EP-----1358184	B1	20070502		
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
HU2003002598	A2	20031128	2003HU-0002598	20020111 <--
EE-200300324	A	20031215	2003EE-000324	20020111 <--
JP2004531484	T	20041014	2002JP-0565984	20020111 <--
NZ-----526868	A	20050429	2002NZ-0526868	20020111 <--
CN-----1671700	A	20050921	2002CN-0806202	20020111 <--
AT-----361288	T	20070515	2002AT-0717325	20020111 <--
EP-----1798230	A1	20070620	2007EP-003413	20020111 <--
R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR, AL, LT, LV, MK, RO, SI				
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WO2003003181	A	20030911	2003NO-003181	20030711 <--
IN2003CN01070	A	20050422	2003IN-CN01070	20030711 <--
BG-----108012	A	20041130	2003BG-0108012	20030721 <--
HK-----1060131	A1	20071012	2004HK-0103164	20040505 <--
US2006040956	A1	20060223	2005US-0234713	20050923 <--
AU2006200437	A1	20060223	2006AU-0200437	20060201 <--
PRAI 2001US-261339P	P	20010112	<--	
2001US-323764P	P	20010919	<--	
2002US-0046681	A	20020110	<--	
2002AU-0248340	A3	20020111	<--	
2002EP-0717325	A3	20020111	<--	
2002WO-US00743	W	20020111	<--	
MARPAT 137:201332				
GI				

L26 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



AB Title compds. [I; A1, A2 independently = C, N; A = 5-, or 6-membered partially saturated heterocyclyl, 5-, or 6-membered heterocyclyl, 9-, or 10-membered fused partially saturated heterocyclyl, 9-, 10-, or 11-membered fused heteroaryl, naphthyl, 4-, 5-, or 6-membered cycloalkenyl; X = C; ZN3, C; ZN(R3)R4; Z = O, S; Y = N; CH, NRS (CR6R7), REN(R5)(CR6R7), NRS (CR6R7)R8; R = 5-, or 6-membered (un)substituted heterocyclyl, 9-, 10-, 11-membered heterocyclyl; R1 = 6-10-membered (un)substituted aryl, 5-, or 6-membered (un)substituted heterocyclyl, 9-11 membered (un)substituted fused heterocyclyl, cycloalkyl, cycloalkenyl; R2 = H, halo, oxo, SH, COOH, CHO; R3 = H, alkyl, 5-, or 6-membered heterocyclyl; R4 = alkynyl, alkenyl, alkenylenyl, alkynylenyl; R5 = H, alkyl, aralkyl, C6H5; R6, R7 independently = H, halo, CN, alkyl; R6R7 = cycloalkyl; R8 = alkynyl, etc.] are prepared and are effective for prophylaxis and treatment of diseases, such as angiogenesis mediated diseases. The invention encompasses novel compds., analogs, prodrugs and pharmaceutically acceptable derivs. thereof, pharmaceutical compns. and methods for prophylaxis and treatment of diseases and other maladies or conditions involving, cancer and the like. The subject invention also relates to processes for making such compds. as well as to intermediates useful in such processes. Thus, the title compound II was prepared from Me 3-amino-2-thiophenecarboxylate, 4-chloroaniline, and 4-pyridine carboxaldehyde via coupling reaction.

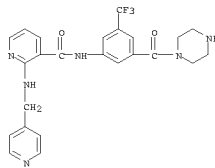
II 453561-82-5P 453563-43-4P 453563-44-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

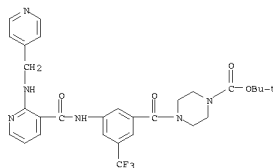
(preparation of heterocyclylalkylamine derivs. as remedies for angiogenesis mediated diseases)

RN 453561-82-5 HCAPLUS
CN 3-Pyridinecarboxamide, N-[3-(1-piperazinylcarbonyl)-5-(trifluoromethyl)phenyl]-2-[(4-pyridinylmethyl)amino]- (CA INDEX NAME)

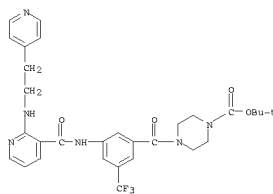
L26 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



RN 453563-43-4 HCAPLUS
CN 1-Piperazinecarboxylic acid, 4-[3-[[2-[(4-pyridinylmethyl)amino]-3-pyridinyl]carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

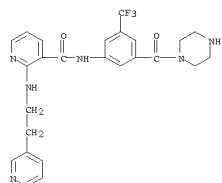


RN 453563-44-5 HCAPLUS
CN 1-Piperazinecarboxylic acid, 4-[3-[[2-[(2-(4-pyridinyl)ethyl)amino]-3-pyridinyl]carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)

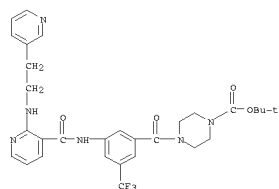


RN 453565-22-5 HCAPLUS
CN 3-Pyridinecarboxamide, N-[3-(1-piperazinylcarbonyl)-5-(trifluoromethyl)phenyl]-2-[(2-(3-pyridinyl)ethyl)amino]- (CA INDEX NAME)

L26 ANSWER 7 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



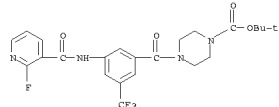
RN 453565-23-6 HCAPLUS
CN 1-Piperazinecarboxylic acid, 4-[3-[[2-[(2-(3-pyridinyl)ethyl)amino]-3-pyridinyl]carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



II 442846-74-4P, 2-Fluoro-N-[3-((4-Boc-piperazin-1-yl)carbonyl)-5-(trifluoromethyl)phenyl]nicotinamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterocyclylalkylamine derivs. as remedies for angiogenesis mediated diseases)

RN 442846-74-4 HCAPLUS
CN 1-Piperazinecarboxylic acid, 4-[3-[[2-(2-fluoro-3-pyridinyl)carbonyl]amino]-5-(trifluoromethyl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 2002:539663 HCAPLUS

CN 137:109210

II Preparation of substituted arylamine derivatives and methods of use as antitumor agents

IN Chen, Guoqing; Booker, Shon; Cai, Guolin; Croghan, Michael; Di Pietro, Lucian; Dominguez, Celis; Elbaum, Daniel; Germain, Julie; Huang, Qir Kim, Joseph L.; Kim, Tae-Seong; Patel, Vinod F.; Smith, Leon M.; Tasker, Andrew; Xi, Ning; Xu, Shimin; Yuan, Chester Chenguang

PA Angen Inc., USA

SO PCT Int. Appl., 253 pp.

CODEN: PIXXD2

Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO2002055501	A2	20020718	2002WO-US00742	20020111 <--
WO2002055501	A3	20021219		
W:	AB, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DS, EC, EE, ES, FI, GB, GD, GE, GR, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NI, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW			
RM:	CH, GM, KE, LS, MW, ME, SD, SL, SE, TZ, UG, ZM, ZW, AT, BE, CH, CI, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, CA, GM, SO, OM, MW, NR, NE, GN, TD, TG			
US2002147198	A1	20021010	2002US-0046526	20020110 <--
CA----2434274	A1	20020718	2002CA-2434274	20020111 <--
AU2002248239	A1	20020724	2002AU-0248239	20020111 <--
EP----1358161	A2	20031105	2002EP-0717324	20020111 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, HK, CY, AL, TR			
JP2004531473	T	20041014	2002JP-0556173	20020111 <--
MX2003PA06010	A	20030910	2003MX-PA06010	20030702 <--
PRAI 2001US-261360P	P	20010112	<--	
2001US-323660P	P	20010919	<--	
2002US-0046526	A	20020110	<--	
2002WO-US00742	W	20020111	<--	
OS MARPAT 137:109210				
GI				

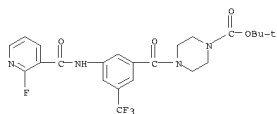
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [B1 and B2 independently equal C or N, wherein B1B2 form part of 5-6 membered heteroaryl ring A; R1 = one or more substituents selected from H, halo, oxo, (un)substituted cycloalkyl, phenylalkyl, etc.; R2 = (un)substituted cycloalkyl, cycloalkenyl, 6-10 membered aryl or 5-6 membered heterocyclyl, etc.; R3 = (un)substituted aryl; R4 = H, alkyl, (un)substituted Ph or aralkyl; X1 = bond, alkynyl, alkenylenyl and alkynylenyl, where one of the CH2 groups may be substituted with O or NH, wherein X1 is optionally substituted with OH; X2 = (un)substituted N containing linker, e.g., -NHCH2-, and there pharmaceutically acceptable derivs., are prepared and disclosed as agents effective for prophylaxis and treatment of diseases, such as angiogenesis mediated diseases. Thus, II was prepared by arylation of 1-dimethylamino-2-propyne with 3-bromo-5-trifluoromethylaniline, hydrogenation, amidation with 2-chloropyridine-3-carbonyl chloride and chloro-substitution with 4-fluorobenzylamine. Selected compds. of the invention, e.g., II, inhibited VEGF-stimulated cell proliferation at a level below 50 nM. The invention encompasses novel compds., analogs, prodrugs and pharmaceutically acceptable derivs. thereof, pharmaceutical compns. and methods for prophylaxis and treatment of diseases and other maladies or conditions involving, cancer and the like.

II RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of substituted aminopyridines as antitumor agents)

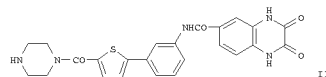
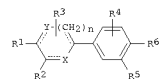
RN 442846-74-4 HCAPLUS
CN 1-Piperazinecarboxylic acid, 4-[3-[[2-(2-fluoro-3-pyridinyl)carbonyl]amino]-

L26 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
S-(trifluoromethyl)benzoyl-, 1,1-dimethylethyl ester (CA INDEX NAME)



L26 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2002:107059 HCAPLUS
DN 136:151182
TI Antimicrobial biaryl compounds
IN Jefferson, Elizabeth Ann; Swayse, Eric
PA Isis Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN, CNT 2

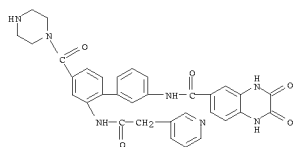
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO20020009648	A2	20020207	2001WO-US24067	20010801 <--
WO20020009648	A3	20020627		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AE, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MM, MG, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US---6849660	B1	20050201	2000US-0610122	20000801 <--
CA---2418121	A1	20020207	2001CA-2418121	20010801 <--
AU2001080944	A5	20020213	2001AU-0080944	20010801 <--
EP---1305028	A2	20030502	2001EP-0959380	20010801 <--
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2001WO-US24067	W	20010801	<--	
OS MAPPAT 136:151182				
GI				



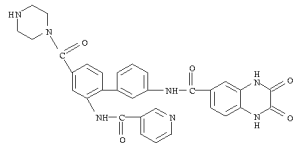
AB Biaryls I [X = CH, O, S, N, NH; Y = CH, N; n = 0, 1; one of R1 and R2 = (un)substituted CONNH2, CO2NH2, CH2NH2, SO2NH2 and the other is H or R3; one of R5 and R6 = NHCOR7, NHO2R7, NHO2R7 and the other is H, R4; Q = amino acid or peptide residue, R3 = H, halogen, (un)substituted NH2, NHCOR7; R4 = H, halogen, hydroxyl, amino, carboxyl, alkyl, alkenyl, alkynyl; R7 = H, amino, (un)substituted alkyl, alkenyl, alkynyl, 5-16 member carbocycle or heterocycle] were prep for use as antimicrobial agents. Thus, polymer-supported piperazine was acylated with 5-bromo-2-thiophenecarboxylic acid, coupled with 3-H2NC6H4B(OH)2, and acylated with 2,3-dioxobenzopyrazine-4-carboxylic acid to give the biaryl II. In a coupled bacterial transcription-translation assay II had an IC50 of 25 μ M.
IT 395648-27-8P 395648-30-3P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU

L26 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

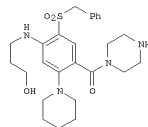
RN 395648-27-8 HCAPLUS
CN 6-Quinoxalinecarboxamide, 1,2,3,4-tetrahydro-2,3-dioxo-N-[4'-(1-piperazinylcarbonyl)-2'-[(3-pyridinylacetyl)amino][1,1'-biphenyl]-3-yl]- (9CI) (CA INDEX NAME)



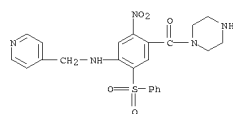
RN 395648-30-3 HCAPLUS
CN 6-Quinoxalinecarboxamide, 1,2,3,4-tetrahydro-2,3-dioxo-N-[4'-(1-piperazinylcarbonyl)-2'-[(3-pyridinylcarbonyl)amino][1,1'-biphenyl]-3-yl]- (CA INDEX NAME)



L26 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2001:689129 HCAPLUS
DN 136:53727
TI Synthesis of a new class of highly functionalized benzamides by threefold sequential nucleophilic substitution at a resin-bound polyelectrophile
AU Grinstup, Marie; Zaragoza, Florencio
CS Novo Nordisk A/S, Maalov, 2760, Den.
SO European Journal of Organic Chemistry (2001), (17), 3233-3246
CODEN: EJOCHF; ISSN: 1434-193X
Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 136:53727
GI



AB The authors have developed a solid-phase synthesis of a new class of highly substituted and functionalized benzamides, e.g. I. This synthesis is based on the sequential introduction of three different nucleophiles at a resin-bound 4,5-difluoro-2-nitrobenzamide. After displacement of one fluorine atom by a thiol and oxidation to a sulfone, the remaining fluorine atom and the nitro group could be substituted sequentially by two different aliphatic amines. In each of the three nucleophilic substitutions it was possible to use unprotected functionalized nucleophiles, giving fast and easy access to libraries of small organic mols. featuring polar functional groups such as hydroxy, amino, and ester groups and various heterocycles.
IT 382146-00-1P 382146-10-3P 382146-24-9P
382146-32-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid-phase synthesis of benzamides by threefold sequential nucleophilic substitution of difluoronitrobenzamide)
RN 382146-00-1 HCAPLUS
CN Piperazine, 1-[1-(2-nitro-5-(phenylsulfonyl)-4-[(4-pyridinylmethyl)amino]benzoyl)-, trifluoroacetate (9CI) (CA INDEX NAME)
CM 1
CPN 382145-99-5
CMF C23 H23 N5 O5 S



CM 2
CPN 76-05-1
CMF C2 H F3 O2

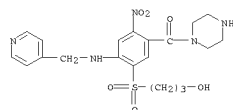
L26 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



RN 382146-10-3 HCAPLUS
CN Piperazine, 1-[5-[(3-hydroxypropyl)sulfonyl]-2-nitro-4-[(4-pyridinylmethyl)amino]benzoyl]-, trifluoroacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 382146-09-0
CMF C20 H25 N5 O6 S



CM 2

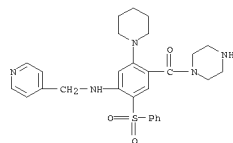
CRN 76-05-1
CMF C2 H F3 O2



RN 382146-24-9 HCAPLUS
CN Piperazine, 1-[5-(phenylsulfonyl)-2-(1-piperidinyl)-4-[(4-pyridinylmethyl)amino]benzoyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 382146-23-8
CMF C28 H33 N5 O3 S

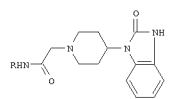


CM 2

L26 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 1995:459558 HCAPLUS
DN 122:214070
TI Preparation of [4-(2-oxo-1-benzimidazolyl)piperidino]acetanilides as retroviral protease inhibitors
IN Bender, Wolfgang; Haebich, Dieter; Raddatz, Siegfried; Roeben, Wolfgang; Wild, Hanno; Hansen, Jutta; Paessens, Arnold
PA Bayer A.-G., Germany
SO Eur. Pat. Appl., 36 pp.
CODEN: EPXKDW
DT Patent
LA German
FAN,CM2 1

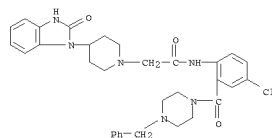
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP-----628555	A1	19941214	1994EP-0108130	19940526 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
DE----4319039	A1	19941215	1993DE-4319039	19930608 <--
JP--06345757	A	19941220	1994JP-0144046	19940603 <--
US--5571921	A	19961105	1995US-0470372	19950606 <--
PRAI 1993DE-4319039	A	19930608	<--	
1994US-0252297	B1	19940601	<--	
OS CASREACT 122:214070; MARPAT 122:214070				
GI				



AB Title compds. [I; R = (un)substituted aryl] were prepared as retroviral protease inhibitors (no data). Thus, BrCH2COCl was amidated by 2,4-F2C6H3NH2 which was condensed with 4-(2-oxo-1-benzimidazolyl)piperidine to give I (R = 2,4-F2C6H3).

IT 161918-12-3P 161918-38-3P 161918-39-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BTOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of [4-(2-oxo-1-benzimidazolyl)piperidino]acetanilides as retroviral protease inhibitors)

RN 161918-12-3 HCAPLUS
CN 1-Piperidineacetamide, N-[4-chloro-2-[(4-(phenylmethyl)-1-piperazinyl)carbonyl]phenyl]-4-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)- (CA INDEX NAME)



RN 161918-38-3 HCAPLUS
CN 1-Piperidineacetamide, N-[4-chloro-2-[(4-formyl-1-piperazinyl)carbonyl]phenyl]-4-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)- (CA INDEX NAME)

L26 ANSWER 10 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

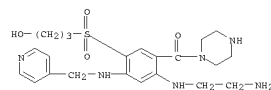
CRN 76-05-1
CMF C2 H F3 O2



RN 382146-32-9 HCAPLUS
CN Piperazine, 1-[2-[(2-aminoethyl)amino]-5-[(3-hydroxypropyl)sulfonyl]-4-[(4-pyridinylmethyl)amino]benzoyl]-, bis(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 382146-31-8
CMF C22 H32 N6 O4 S



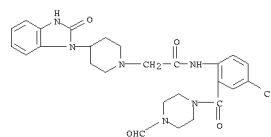
CM 2

CRN 76-05-1
CMF C2 H F3 O2

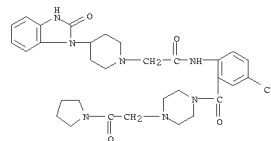


RE,CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

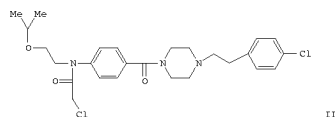
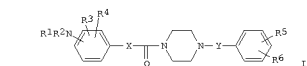


RN 161918-39-4 HCAPLUS
CN 1-Piperidineacetamide, N-[4-chloro-2-[(4-(2-oxo-2-(1-pyrrolidinyl)ethyl)-1-piperazinyl)carbonyl]phenyl]-4-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)- (CA INDEX NAME)



L26 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1993:254960 HCAPLUS
 DN 118:254960
 TI Preparation of N-(aminoaroyl)-N'-(arylalkyl)piperazines as analgesics
 IN Ferrini, Ples Giorgio
 PA Ciba-Geigy A.-G., Switz.
 SO Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP-----524146	A1	19930310	1992EP-0810525	19920710 <--
R: A1, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE				
US-----528678	A	19940215	1992US-0813277	19920714 <--
AU-----9220317	A	19930121	1992AU-0020317	19920715 <--
AU-----650989	B2	19940707		
CA-----2074154	A1	19930310	1992CA-2074154	19920717 <--
NO-----9202853	A	19930120	1992NO-0002853	19920717 <--
ZA-----9203359	A	19930331	1992ZA-0005359	19920717 <--
JP-----05202014	A	19930810	1992JP-0190894	19920717 <--
HU-----67047	A2	19950130	1992HU-0002359	19920717 <--
PRAI 1991CH-0002160	A	19910719	<--	
1992CH-0001340	A	19920427	<--	
OS MARPAT 118:254960				
GI				

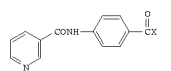


AB Title compds. [I; R1 = H, alkyl, alkoxyalkyl, aryloxyalkyl, (di)alkylaminoalkyl, etc.; R2 = (substituted) alkenyl, carbonyl, carboxyalkyl, H, alkanoyl, CO2H, alkoxy carbonyl, arylalkoxyalkyl, etc.; R3, R4 = H, alkyl, halo, alkoxy, alkylthio; R5, R6 = H, alkyl, haloalkyl, alkoxy, alkylthio, halo, (di)alkylamino, alkanoylamino; X, Y = bond, alkylene, alkenylene], were prepared. Thus, 1-[4-N-(2-isopropoxyethylamino)benzoyl]-4-[2-(4-chlorophenyl)ethyl]piperazine (preparation given) was stirred with K2CO3 and ClCH2COCl in PhMe at 45° to give title compound II. HCl. Numerous dosage formulations were prepared containing II or II salts. I inhibited lipopolysaccharide-induced fever in rats with ED50 = 0.05-3.5 mg/kg orally.

IT 147149-32-4P 147716-93-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as analgesic)

RN 147149-32-4 HCAPLUS
 CN 1-Piperidineacetamide, N-[4-[[4-[2-(4-chlorophenyl)ethyl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-methylethoxy)ethyl]- (CA INDEX NAME)

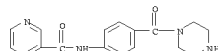
L26 ANSWER 13 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1993:59547 HCAPLUS
 DN 118:59547
 TI Novel substituted nicotinamide derivatives: synthesis and evaluation for antihypertensive activity
 AU Youssef, Khairia M.; Mohamed, Mosaad S.; El-Badry, Ossama M.
 CS Fac. Pharm., Cairo Univ., Cairo, Egypt
 SO Alexandria Journal of Pharmaceutical Sciences (1992), 6(2), 201-4
 CODEN: AJPSSE; ISSN: 1110-1792
 DT Journal
 LA English
 GI



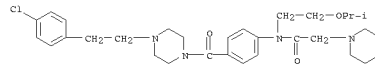
AB The synthesis of two novel series of nicotinamide derivs. I (X = NR1R1, NR1R1 = pyrrolidino, morpholino, piperidino, piperazino; methylphenylamino; X = OCH2CONRR1) was carried out. 3-[(4-Carboxyphenyl)aminocarbonyl]pyridine (II) was converted to its acid chloride which was reacted with HNRR1 to give I (X = NR1R1) in quant. yield. The sodium salt of II reacted with ClCH2CONRR1 to give I (X = OCH2CONRR1). I (X = NR1R1, OCH2CONRR1) were converted to their Me iodide salts which were reduced with NaBH4 to give 1,2,3,4-tetrahydropyridine derivs. Eight of the new compds. were tested for hypotensive activity in anesthetized normotensive rabbits.

IT 145222-04-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and conversion of, to Me iodide salt)

RN 145222-04-4 HCAPLUS
 CN 3-Pyridinecarboxamide, N-[4-(1-piperazinylcarbonyl)phenyl]- (CA INDEX NAME)

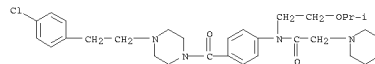


L26 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN (Continued)



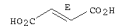
RN 147716-93-6 HCAPLUS
 CN 1-Piperidineacetamide, N-[4-[[4-[2-(4-chlorophenyl)ethyl]-1-piperazinyl]carbonyl]phenyl]-N-[2-(1-methylethoxy)ethyl]-, (2E)-2-butenedioate (1:2) (CA INDEX NAME)

CM 1
 CRN 147149-32-4
 CMF C31 H43 Cl N4 O3

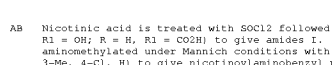
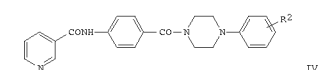
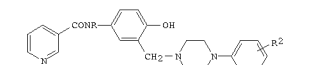
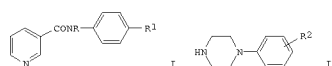


CM 2
 CRN 110-17-8
 CMF C4 H4 O4

Double bond geometry as shown.



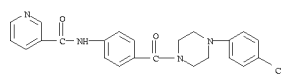
L26 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2008 ACS on STN
 AN 1990:235261 HCAPLUS
 DN 112:235261
 TI Synthesis of novel 1,4-disubstituted piperazines as potential antihypertensive agents
 AU Botros, S.; Youssef, K. M.; Isaac, Z.
 CS Fac. Pharm., Univ. Cairo, Egypt
 SO Egyptian Journal of Pharmaceutical Sciences (1989), 30(1-4), 419-27
 CODEN: EJPSSE; ISSN: 0301-5068
 DT Journal
 LA English
 OS CASREACT 112:235261
 GI



AB Nicotinic acid is treated with SOCl2 followed by 4-HNRC6H4R1 (R = Me, H, R1 = OH; R = H, R1 = CO2H) to give amides I. I (R1 = OH) is aminomethylated under Mannich conditions with arylpiperazines II (R2 = 2-, 3-Me, 4-Cl, H) to give nicotinoylaminoethyl piperazines III. I (R1 = CO2H) is amidated with SOCl2 and II to give nicotinoylaminoethyl piperazines IV. III and IV (R2 = 4-Cl, 4-Br) were screened for antihypertensive activity.

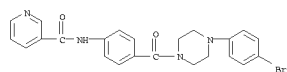
IT 127222-58-6P 127222-59-7P 127222-62-2P
 127222-63-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and antihypertensive activity of)

RN 127222-58-6 HCAPLUS
 CN 3-Pyridinecarboxamide, N-[4-[[4-(4-chlorophenyl)-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)

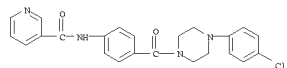


RN 127222-59-7 HCAPLUS
 CN 3-Pyridinecarboxamide, N-[4-[[4-(4-bromophenyl)-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)

L26 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

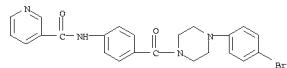


RN 127222-62-2 HCAPLUS
CN 3-Pyridinecarboxamide, N-[4-[(4-chlorophenyl)-1-piperazinyl]carbonyl]phenyl]-, hydrochloride (9CI) (CA INDEX NAME)



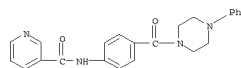
● X HCl

RN 127222-63-3 HCAPLUS
CN 3-Pyridinecarboxamide, N-[4-[(4-bromophenyl)-1-piperazinyl]carbonyl]phenyl]-, hydrochloride (9CI) (CA INDEX NAME)



● X HCl

IT 127222-57-5P 127222-60-0P 127222-61-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 127222-57-5 HCAPLUS
CN 3-Pyridinecarboxamide, N-[4-[(4-phenyl-1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)



RN 127222-60-0 HCAPLUS
CN 3-Pyridinecarboxamide, N-[4-[(2-methylphenyl)-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)

L26 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN

AN 1972:462022 HCAPLUS

DN 77462022

OREF 7710267a,10270a

TI 1-(2-Hydroxy-5-chlorobenzoyl)piperazine derivatives

IN Brissson, Henri; Vrancea, Serge

PA Laboratoires Biosedra

SO Ger. Offen., 9 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE---2155857	A	19720518	1971DE-2155857	19711110 <--
BE---774447	A1	19720214	1971BE-0109738	19711025 <--
PRAI 1970GB-0053695	A	19701111	<--	

GI For diagram(s), see printed CA Issue.

AB Twelve title compds. (I; R = H or 3-pyridylcarbonyl; R1 = Me, CH2CH(OH)Me, CH2CO2Et, m-ClC6H4, 2,5-Me2C6H3, 5,2-Cl (HO)C6H3CO, CH2CONH2, or 2-(3-pyridylcarbonyloxy)propyl), useful as antiinflammatory and analgesic agents, were prepared. Thus, refluxing 242 g Et 2-(1-piperazinyl)acetate and 264 g 5,2-Cl(HO)C6H3COCl in pyridine gave 320 g I (R = H, R1 = CH2CO2Et) (II). Heating 117 g II and 114.8 g nicotinic anhydride 2 hr on an oil bath (145-60°) gave 115 g I (R = 3-pyridylcarbonyl, R1 = CH2CO2Et). Refluxing 29 g I (R = R1 = H) and 70 g propylene oxide 30 min in MeOH gave 23 g I (R = R, R1 = CH2CMeOH).

IT 37133-68-9P 37133-69-0P 37133-82-7P

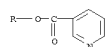
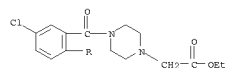
37133-83-8P 37133-84-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

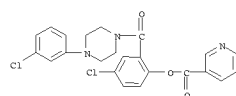
(preparation of)

RN 37133-68-9 HCAPLUS

CN 1-Piperazineacetic acid, 4-[5-chloro-2-[(3-pyridinylcarbonyl)oxy]benzoyl]-, ethyl ester (CA INDEX NAME)

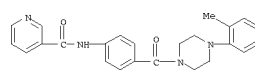


RN 37133-69-0 HCAPLUS
CN 3-Pyridinecarboxylic acid, 4-chloro-2-[(4-(3-chlorophenyl)-1-piperazinyl)carbonyl]phenyl ester (CA INDEX NAME)

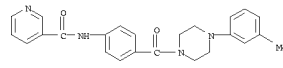


RN 37133-82-7 HCAPLUS
CN 3-Pyridinecarboxylic acid, 2-[4-[5-chloro-2-[(3-pyridinylcarbonyl)oxy]benzoyl]-1-piperazinyl]-1-methylethyl ester, hydrochloride (9CI) (CA INDEX NAME)

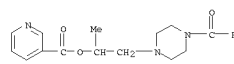
L26 ANSWER 14 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)



RN 127222-61-1 HCAPLUS
CN 3-Pyridinecarboxamide, N-[4-[(3-methylphenyl)-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)

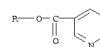
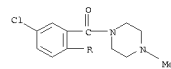


L26 ANSWER 15 OF 15 HCAPLUS COPYRIGHT 2008 ACS ON STN (Continued)

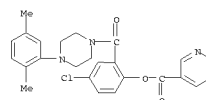


● X HCl

RN 37133-83-8 HCAPLUS
CN 3-Pyridinecarboxylic acid, 4-chloro-2-[(4-(4-methyl-1-piperazinyl)carbonyl]phenyl ester (9CI) (CA INDEX NAME)



RN 37133-84-9 HCAPLUS
CN 3-Pyridinecarboxylic acid, 4-chloro-2-[(4-(2,5-dimethylphenyl)-1-piperazinyl)carbonyl]phenyl ester (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 13:23:58 ON 13 FEB 2008)

FILE 'HCAPLUS' ENTERED AT 13:24:11 ON 13 FEB 2008

E WO0166534/PN

E WO2001-US6885/AP,PRN

L1 1 E3-4

FILE 'REGISTRY' ENTERED AT 13:26:29 ON 13 FEB 2008

FILE 'HCAPLUS' ENTERED AT 13:26:29 ON 13 FEB 2008

L2 TRA L1 1- RN : 462 TERMS

FILE 'REGISTRY' ENTERED AT 13:26:29 ON 13 FEB 2008

L3 462 SEA L2

L4 210 L3 AND NC2NC2/ES

L5 6 L4 AND NC5/ES

FILE 'HCAPLUS' ENTERED AT 14:02:25 ON 13 FEB 2008

L6 2 WO1999-EP5744/AP,PRN

FILE 'REGISTRY' ENTERED AT 14:02:59 ON 13 FEB 2008

FILE 'HCAPLUS' ENTERED AT 14:02:59 ON 13 FEB 2008

L7 TRA L6 1- RN : 427 TERMS

FILE 'REGISTRY' ENTERED AT 14:03:00 ON 13 FEB 2008

L8 427 SEA L7

L9 0 L8 AND (NC2NC2 AND NC5)/ES

FILE 'HCAPLUS' ENTERED AT 14:20:27 ON 13 FEB 2008

L10 1 US20060052597/PN

FILE 'REGISTRY' ENTERED AT 14:21:19 ON 13 FEB 2008

FILE 'HCAPLUS' ENTERED AT 14:21:19 ON 13 FEB 2008

L11 TRA L10 1- RN : 229 TERMS

FILE 'REGISTRY' ENTERED AT 14:21:19 ON 13 FEB 2008

L12 229 SEA L11

L13 201 L12 AND NC5/ES

L14 142 L13 AND NC2NC2/ES

L15 142 L14 AND 46.150.18/RID

L16 142 L15 AND O/ELS

L17 STR

L18 0 L17

L19 107285 C6/ES AND (NC2NC2 AND NC5)/ES

L20 3 L17 SAM SUB=L19

L21 345 L17 FULL SUB=L19

SAV TEM J371C1/A L21

L22 114 L21 AND L12

L23 231 L21 NOT L22

FILE 'HCAPLUS' ENTERED AT 14:32:32 ON 13 FEB 2008

L24 1 L22

L25 23 L23

L26 15 L23 AND (PD<=20021022 OR AD<=20021022 OR PRD<=20021022)

SEL HIT RN

FILE 'REGISTRY' ENTERED AT 14:36:42 ON 13 FEB 2008

L27 40 E1-40

E PIPERIDINE/CN

L28 1 E3

L29 6 46.156.1/RID AND L27

FILE 'HCAPLUS' ENTERED AT 14:47:21 ON 13 FEB 2008

FILE 'HCAOLD' ENTERED AT 14:47:59 ON 13 FEB 2008

L30 0 L22
L31 0 L23

FILE 'HCAPLUS' ENTERED AT 14:48:41 ON 13 FEB 2008
L32 8 L25 NOT L26
 SEL HIT RN L32

FILE 'REGISTRY' ENTERED AT 14:49:00 ON 13 FEB 2008
L33 26 E1-26
L34 23 L33 AND 46.156.1/RID

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